### PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORIT	<u>Y</u>			
To:	PCT			
Vu Sama Audama & Bardanan	NOTIFICATION OF TRANSMITTAL OF			
Yu Sarn Audrey & Partners 190 Middle Road, #12-04	THE INTERNATIONAL SEARCH REPORT AND			
Singapore 188979	THE WRITTEN OPINION OF THE INTERNATIONAL			
	SEARCHING AUTHORITY, OR THE DECLARATION			
	(PCT Rule 44.1)			
1	Date of mailing 2 0 SEP 2004			
Applicant's or agent's file reference	(day/month/year)			
AY/2004.1427	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No.	International filing date			
PCT/SG2004/000237	(day/month/year 4 August 2004			
Applicant				
AGENCY FOR SCIENCE, TECHNOLOGY AND I	RESEARCH et al			
1. X The applicant is hereby notified that the international search	h report and the written opinion of the International Searching Authority			
mayo been established and are transmitted herewith.	, and a second of the second o			
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the clai	ms of the international application (see Rule 46)-			
	ints is normally two months from the date of transmittal of the			
international search report.	•			
Where? Directly to the International Burcau of 1211 Geneva 20, Switzerland, Facsimil	WIPO, 34 chemin des Colombettes			
For more detailed instructions, see the notes on the a	ccompanying sheet.			
The applicant is hereby notified that no international search to that effect and the written opinion of the International Search	n report will be established and that the declaration under Article 17(2)(a) carching Authority are transmitted herewith.			
3. With regard to the protest against payment of (an) addition	onal fee(s) under Rule 40.2, the applicant is notified that:			
the protest together with the decision thereon has been request to forward the texts of both the protest and the	n transmitted to the International Bureau together with the applicant's e decision thereon to the designated Offices.			
no decision has been made yet on the protest; the app				
4. Reminders				
Shortly after the expiration of 18 months from the priority date, to Bureau. If the applicant wishes to avoid or postpone publication, claim, must reach the International Bureau as provided in Rules 9 preparations for international publication.	he international application will be published by the International a notice of withdrawal of the international application, or of the priority lobis. I and 90bis.3, respectively, before the completion of the technical			
The applicant may submit comments on an informal basis on the written opinion of the International Searching Anthority to the				
International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not				
details the expitation of 30 months from the priority date.				
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in				
some offices even fater), otherwise, the applicant must, within 20 months from the priority date, pressure the presented age for any				
und the national phase before those designated Offices.				
In respect of other designated Offices, the time limit of 30 months	(or later) will apply even if no demand is filed within 19 months.			
Volume II, National Chapters and the WIPO Internet site.	licable time limits, Office by Office, see the PCT Applicant's Guide,			
Name and mailing address of the ISA/AU	Authorized 65			
AUSTRALIAN PATENT OFFICE	Authorized officer			
PO BOX 200, WODEN ACT 2606, AUSTRALIA	MA			
E-mail address: pct@ipaustralia.gov.au	ALBERT S. J. YONG			
Facsimile No. (02) 6285 3929	Telephone No. (02) 6283 2160			

#### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

## INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Scarching Authority, one opportunity to amend the claims of the international application. It should however be emphasised that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, eg. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see PCT Applicant's Guide, Volume I/A, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see PCT Applicant's Guide, Volume I/A, paragraph 296).

## What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

### What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

### NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled:
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

# The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
   "Claims 1 to 29, 31 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
   "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
  - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claims 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

## Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

If a demand for international preliminary examination is made, the written opinion of the International Searching Authority will, except in certain cases where the International Preliminary Examining Authority did not act as International Searching Authority and where it has notified the International Bureau under Rule 66.1bis(b), be considered to be a written opinion of the International Preliminary Examining Authority. If a demand is made, the applicant may submit to the International Preliminary Examining Authority a reply to the written opinion together, where appropriate, with amendments before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later (Rule 43bis.1(c)).

## Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II.

## PATENT COOPERATION TREATY

### **PCT**

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

AY/2004.1427	ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year	
PCT/SG2004/000237	4 August 2004	(Earliest) Priority Date (day/month/year) 4 August 2004
Applicant		4 August 2004
AGENCY FOR SCIENCE,	TECHNOLOGY AND RESEARCH	et al
This international search report has been p	prepared by this International Searching Autho	ority and is transmitted to the applicant according to
Article 18. A copy is being transmitted to This international search report consists of	nie dicemenousi Buleso.	•
	copy of each prior art document cited in this re	
	or of the price at the contract cited in this re	port
1. Basis of the report	·	
<ul> <li>With regard to the language, the in it was filed, unless otherwise indic</li> </ul>	nternational search was carried out on the basis	s of the international application in the language in which
		on of the international application furnished to this
Authority (Rule 23.	1(0)).	
	e and/or amino acid sequence disclosed in th	e international application, see Box No. I.
2. Certain claims were found t	unsearchable (See Box No. II).	
3. Unity of invention is lacking	(See Box No. 111).	
With regard to the title,	•	
	v. 17 1	·
the text is approved as submit	,	
the text has been established t	by this Authority to read as follows:	
5. With regard to the abstract,	·	
X the text is approved as submit	ted by the applicant	·
<del></del>		in Delta and an analysis of the second
one month from the date of ma	ailing of this international search report, submi	it appears in Box No. IV. The applicant may, within it comments to this Authority.
. With regard to the drawings,		
a the figure of the drawings to be pub	lished with the abstract is Figure No. 2	
X as suggested by the a	pplicant.	
	•	_
	thority, because the applicant failed to suggest	
33 selected by this Au	thority, because this figure better characterized	s the invention.
b. none of the figures is to be pub	lished with the abstract.	

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## INTERNATIONAL SEARCH REPORT

International application No.
PCT/SG2004/000237

Γ					PCT/SG2004	4/000237
/~E	•	CLASSIFICATION OF SUBJECT MATTE	R	-		
1	r. Cl. 7:	C08F 2/22, 220/02, 220/10, A61F 9/00,				
Ac	cording to	International Patent Classification (IPC) or to	both national classification	and IPC		
B.		FIELDS SEARCHED				
112	c. as abo	., -				
Doc	cumentatio.	n searched other than minimum documentation to th	e extent that such documents	are included in	the fields scare	hed
Elec	ctronic data	a base consulted during the international ecessis (and	00 00 d - b			
	PAI & JA	- 10 (beaton testis: porous, polymer, art	<u>g)</u>			
C	· · · · · · · · · · · · · · · · · · ·	DOCUMENTS CONSIDERED TO BE RELEVAN	NT .			
C	ategory*	Citation of document, with indication, where		at passages		Relevant to claim No.
1	x	WO 1997/035904 A (NOVARTIS AG)	2 October 1997			
	Y	See page 3 lines 14-25, page 17 lines 1-	3, page 21 lines 1-20 an	id page 22 li	nes 8-12.	1-24 20-24
		US 6 451 348 A (JEONG et al.) 17 Septi		•		20-24
1	x	See whole document	mber 2002			
ł	Υ .				}	17-18 20-24
1		US 6 652 581 A (DING) 25 November 2	003			20 24
	X	See whole document	003			4= 45
	Y				.	17-18 20-24
		FD 0 992 006 A 0 00 000 00 00 00 00			1	
	A	EP 0 882 996 A (MENICON CO. LTD.) Whole document	9 December 1998		1	• • •
		·	•			1-24
		41				
		orther documents are listed in the continual	ion of Box C X	See patent	family annex	
"A"	document	ntegories of cited documents:  defining the general state of the art which is "T"  lered to be of particular relevance	later document published after conflict with the application bu	the international tricket to underst	filing date or prior	rity date and not in or theory
"E"	earlier app internation	plication or patent but published on or after the "X" all filing date	underlying the invention document of particular relevant or cannot be considered to inve	e; the claimed in sive an inventive	vention cannot be step when the doc	considered novel
"Ļ"	document or which is	which may throw doubts on priority claim(s) "Y" s cited to establish the publication date of	, alone document of particular relevance	at the claimed in	vention council ha	
<b>"O"</b>	another cit	ation or other special reason (as specified). referring to an oral disclosure, use, exhibition	involve an inventive step when such documents, such combinat	ion being obviou	combined with one to a person skill	e or more other ed in the art
-P-	or other made document ; but later the	eans "&" published prior to the international filing date an the priority date claimed	document member of the same p	elent family		
Datc o		completion of the international search	Date of mailing after to	******		
13 Se	ptember	2004	Date of mailing of the in	iemaiionai scai		SEP 2004
		address of the ISA/AU	Authorized officer			1004
AUSTI PO BO	RALIAN P OX 200. W	ATENT OFFICE ODEN ACT 2606, AUSTRALIA				
E-mail	address: p	ct@ipaustralia.gov.au	ALBERT S. J. YO	NG		
racsim	Telephone No : (02) 6285 3929				:	

#### INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/SG2004/000237

is Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patt	ent Document Cited in Search Report			Pa	tent Family Member		
wo	9735904	AU	20289/97	AU	21582/97	AU	22897/97
		AU	51490/96	BR	9604857	BR	9708355
		BR	9708357	BR	9708363	CA	2215138
		CA	2248003	CA	2248045	CA	2248162
		CN	1180361	CN	1214708	CN	1217003
		EP	0819141	EP	0889923	EP	0889924
	• •	EP	0889925	ID	17807	ID	18815
		D	18841	KR	2000004952	KR	2000004974
		KR	2000004975	NO	974583	NO	984478
		NO	984479	NO	984480	NZ	304330
		NZ	331734	NZ	332019	NZ	332034
		US	5994133	· US	6015609	US	6060530
	•	US	6160030	wo	9631548	wo	9735905
	•	WO	9735906	ZA	9602659	ZA	9702603
		ZA	9702604	ZA	9702605		
US	6451348	AU	53449/98	CN	1244795	GB	2336110
		KR	2000069800	wo	9829100		
JS .	6652581	CA	2336650	EP	1096902	US	2004067301
		wo	0001322				
EP	0882996	ЛР	10339857	US	6027745		

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX

### PATENT COOPERATION TREATY

ERNATIONAL SEARCHING AUTHORIT	Υ				
To:		1	DCT		
			PCT		
Yu Sarn Audrey & Partners					
190 Middle Road, #12-04 Singapore 188979		WRI	ITEN OPINION OF THE		
Singapore 108777		INTERNATIO	NAL SEARCHING AUTHORITY		
·					
			(PCT Rule 43bis.1)		
		Date of mailing (day/month/year)	2 0 SEP 2004		
Applicant's or agent's file reference	**************************************	FOR FURTHER ACT	TION		
AY/2004.1427			See paragraph 2 below		
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)		
PCT/SG2004/000237	4 August 2004		4 August 2004		
International Patent Classification (IPC) or 1	both national classifica	tion and IPC			
Int. CL <sup>1</sup> C08F 2/22, 220/02, 220/10,	A61F 9/00, G02C 7	7/04	•		
Applicant		•			
AGENCY FOR SCIENCE, TECH	HNOLOGY AND R	ESEARCH et al			
1. This opinion contains indications relati	ng to the following ite	ema:			
X Box No. I Basis of the opinion	•				
Box No. II Priority		•			
	of ominion with regard to	novelty inventive eten a	nd industrial applicability		
Box No. IV Lack of unity of inve		noverty, inventive step at	no industrial applicability		
X Box No. V Reasoned statement	under Rulc 43 <i>bis</i> ,1(a)(i)	with regard to novelty, ir	eventive step or industrial applicability;		
citations and explana  Box No. VI Certain documents c	ations supporting such st	atement			
	•	_			
2. FURTHER ACTION					
be the IPEA and the chosen IPEA has not Searching Authority will not be so consider	') except that this does no fied the International Bu cred.	ot apply where the applica reau under Rule 66. I <i>bis</i> (b	red to be a written opinion of the International ant chooses an Authority other than this one to b) that written opinions of this International		
If this opinion is, as provided above, consi- written reply together, where appropriate, PCT/ISA/220 or before the expiration of 2	With amendments, before	the expiration of 3 mont	he from the date of mailing of Ross		
For further options, see Form PCT/ISA/22	2 monus nom me prom 0.	ry date, whichever expire	S LECT.		
, , , , , , , , , , , , , , , , , , , ,	<b></b>				
3. For further details, see notes to Form PCT/IS	A/220.				
Name and mailing address of the IPEA/AU		Authorized Officer			
AUSTRALIAN PATENT OFFICE			1		
PO BOX 200, WODEN ACT 2606, AUSTRALL E-mail address: pct@ipaustralia.gov.au	A .	ALBERT S. J. YOP	NG OM		
Facsimile No. (02) 6285 3929  Telephone No. (02) 6283 2160					

#### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/SG2004/000237

Box No. I Basis of the opinion	Δ
With regard to the language, this which it was filed, unless otherwas	s opinion has been established on the basis of the international application in the language in rise indicated under this item.
This opinion has been estable the following language international search (under	olished on the basis of a translation from the original language into , which is the language of a translation furnished for the purposes of Rules 12.3 and 23.1(b)).
	nd/or amino acid sequence disclosed in the international application and necessary to the has been established on the basis of:
a. type of material	
a sequence listing table(s) related to the s	sequence listing
b. format of material	
in written format in computer readable f	· · · · · · · · · · · · · · · · · · ·
c. time of filing/furnishing	
	ational application as filed.
<u></u>	international application in computer readable form.  to this Authority for the purposes of search.
3. In addition, in the case that filed or furnished, the requi	more than one version or copy of a sequence listing and/or table relating thereto has been red statements that the information in the subsequent or additional copies is identical to that a does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:	
	·

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/SG2004/000237

Box No. V	No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Statement					
No	ovelty (N)	Claims	YES		
		Claims 1-24	ио		
Inventive step (IS)	Claims	YES			
		Claims 1-24	· NO		
Inc	dustrial applicability (IA)	Claims 1-24	YES		
		Claims	NO		

#### 2. Citations and explanations:

#### CITATIONS

D1. WO 1997/035904

D2. US 6451348

D3. US 6652581

#### **NOVELTY**

Claims 1-24: The claimed invention relates to a polymer comprising a porous polymer matrix and a drug dispersed in either or both the matrix and the pores. D1 discloses a porous polymer having an interpenetrating network of pores obtained by microemulsion polymerisation. D1 also discloses the use of the polymer for contact lenses and drug delivery devices. Claims 1-24 are not novel in the light of this citation.

Citations D2 and D3 each discloses the use of porous polymer for drug delivery devices. These citations render claims 17 and 18 not novel.

#### INVENTIVE STEP

<u>Claims 1-24</u>: These claims lack an inventive step for reasons stated above.

<u>Claims 20-24</u>: These claims do not involve an inventive step when citation D1 is combined with either D2 or D3, as would be obvious to a person skilled in the art.